

Figure 1A

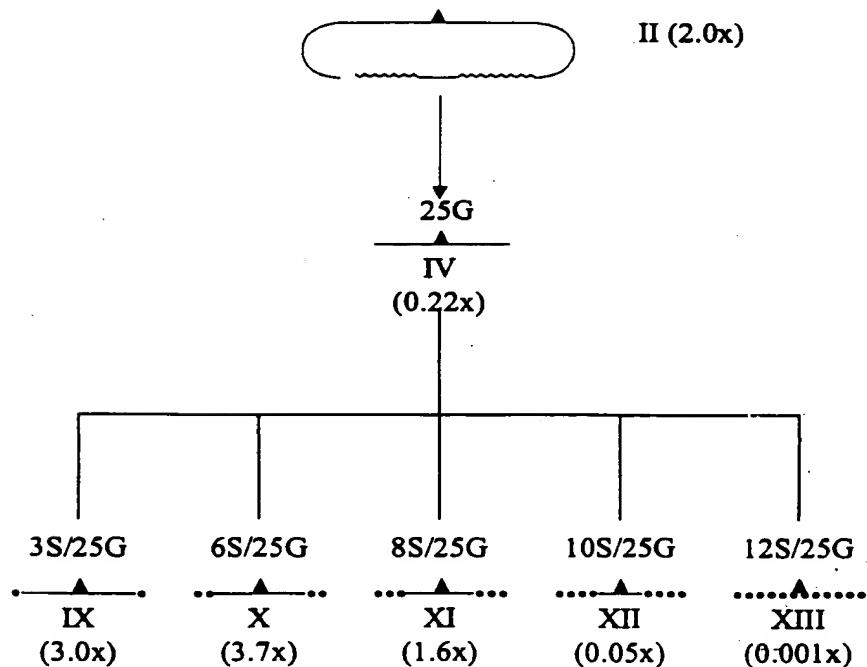


Figure 1B

O S E R V A T I O N S

Plasmids, DNA targets and chimeric oligonucleotides

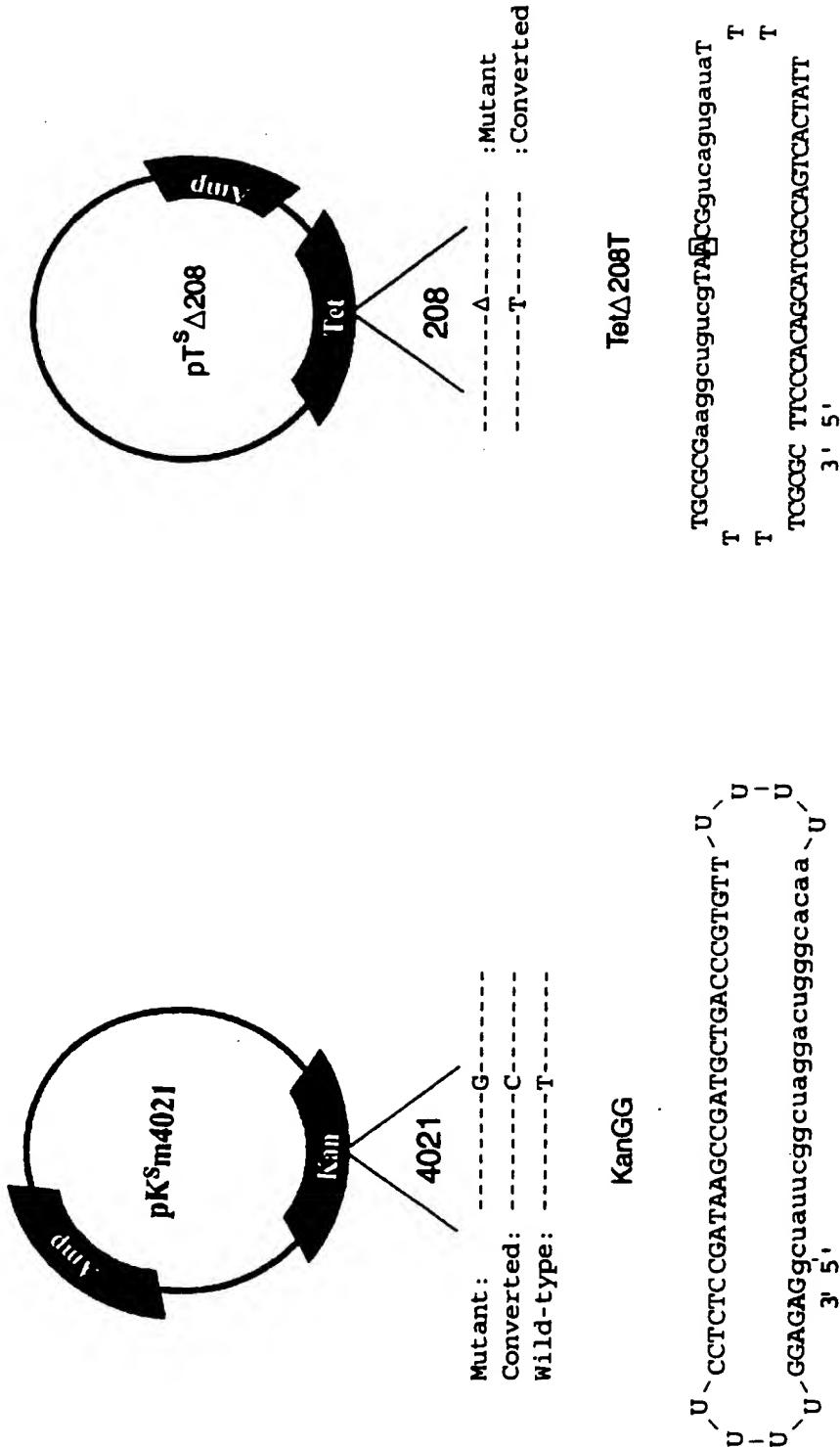


Figure 1C

Digitized by srujanika@gmail.com

DNA SEQUENCE ANALYSES

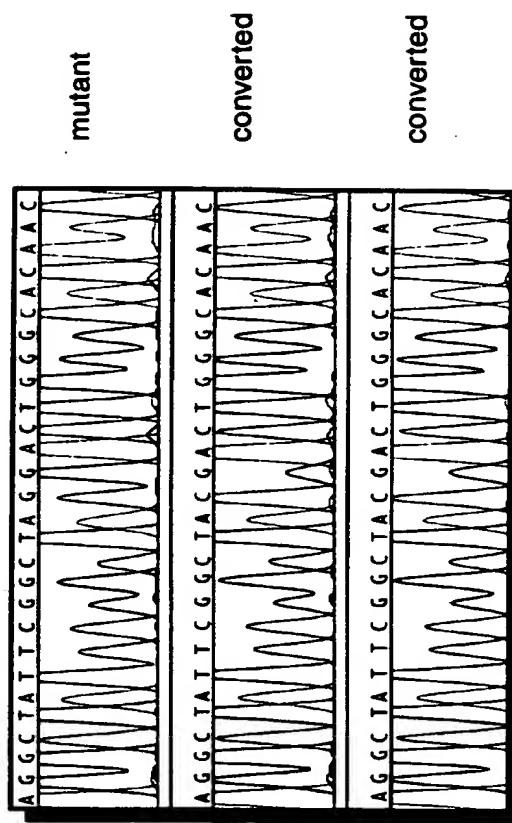


Figure 1D

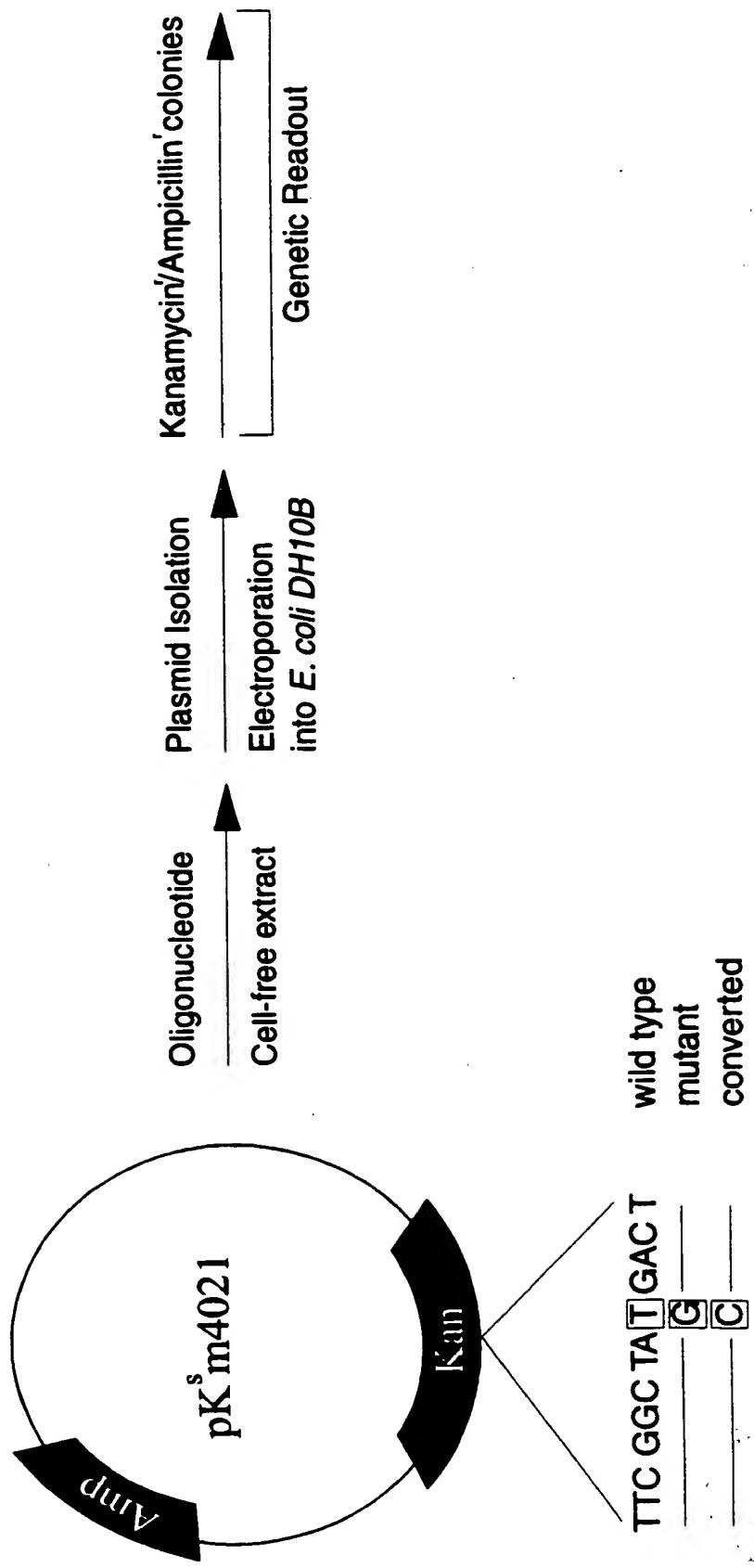
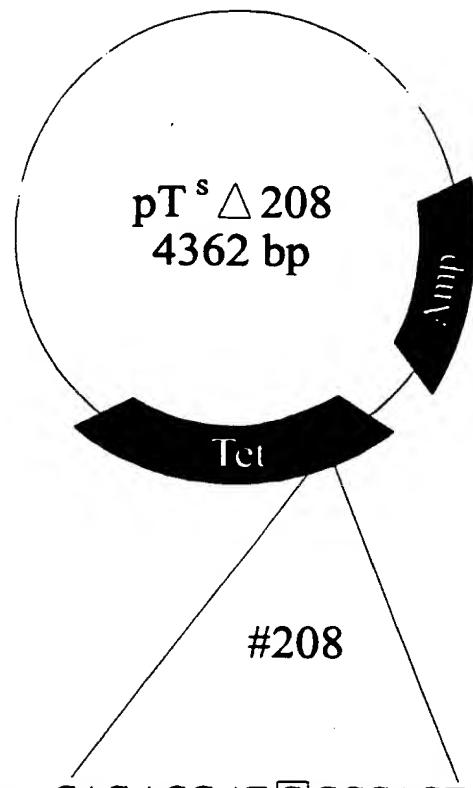


Figure 2



Wild type: GAC AGC AT **C** GCCAGT
 Mutant: GAC AGC AT - GCCAGT
 Converted: GAC AGC AT **T** GCCAGT

Sequence analysis of Tet^r plasmid Δ208

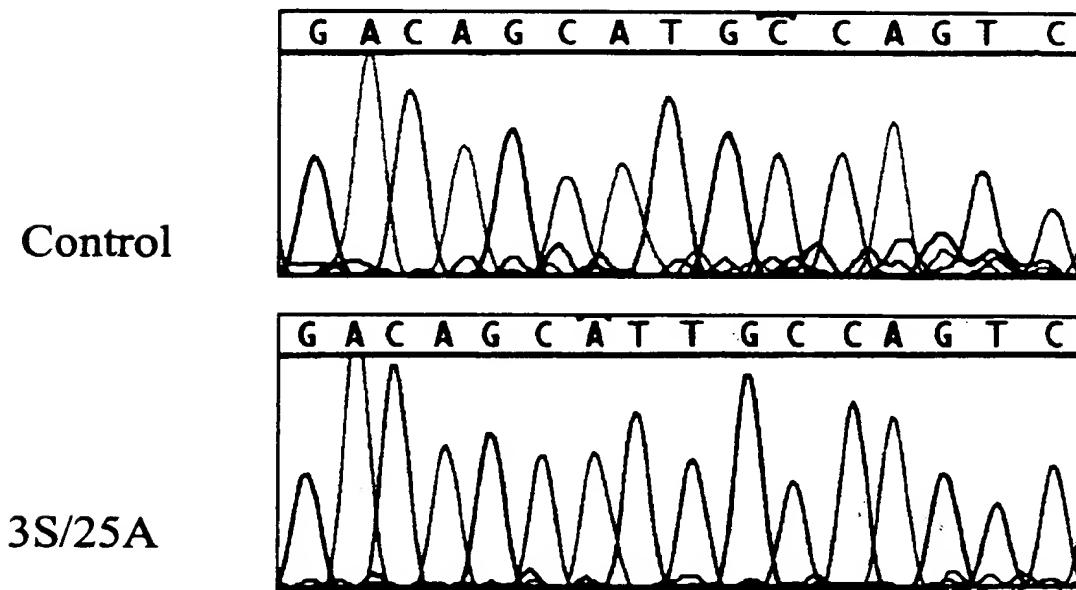


Figure 3

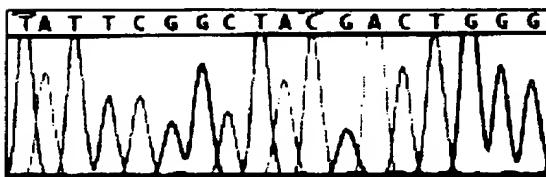
DNA sequence analysis of Kan^r plasmids

Target codon distribution

oligomer	TAG	TAC	TAC/TAG	TGG	TCG
1) 3S/25G (20)	---	+	---	---	---
2) 6S/25G (20)	---	+	---	---	---
3) 8S/25G (20)	---	+	---	---	---
4) 10S/25G (18)	---	+	---	+(2)	+(2)
5) 25S/25G (4)	---	---	+(2)	+(2)	---

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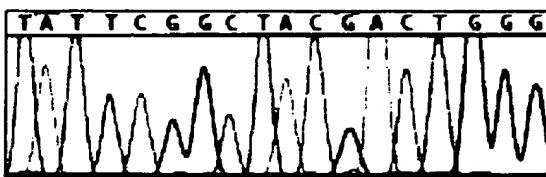
3S/25G



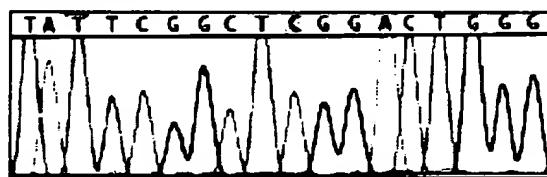
6S/25G



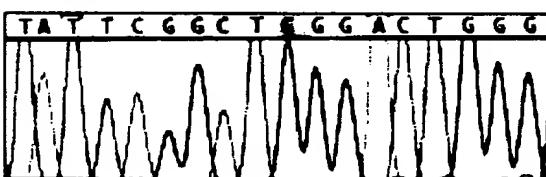
8S/25G



10S/25G



25S/25G



25S/25G

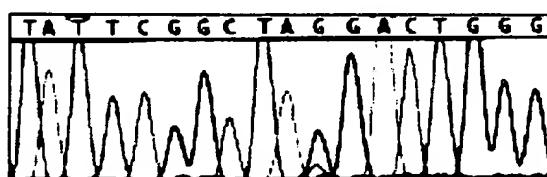


Figure 4

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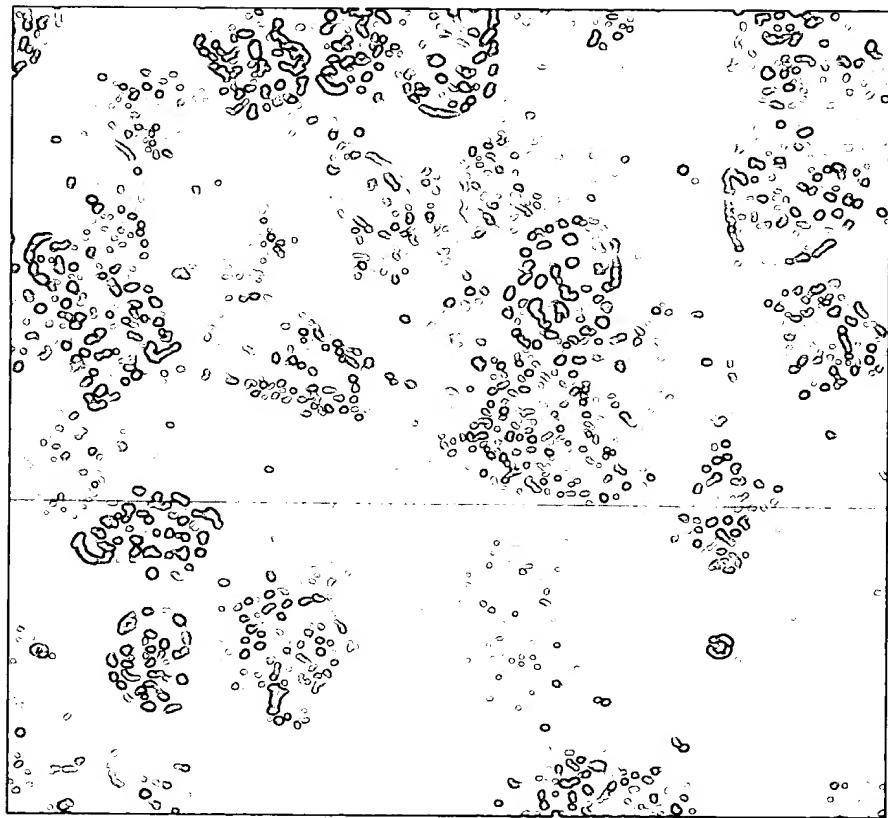


Figure 5

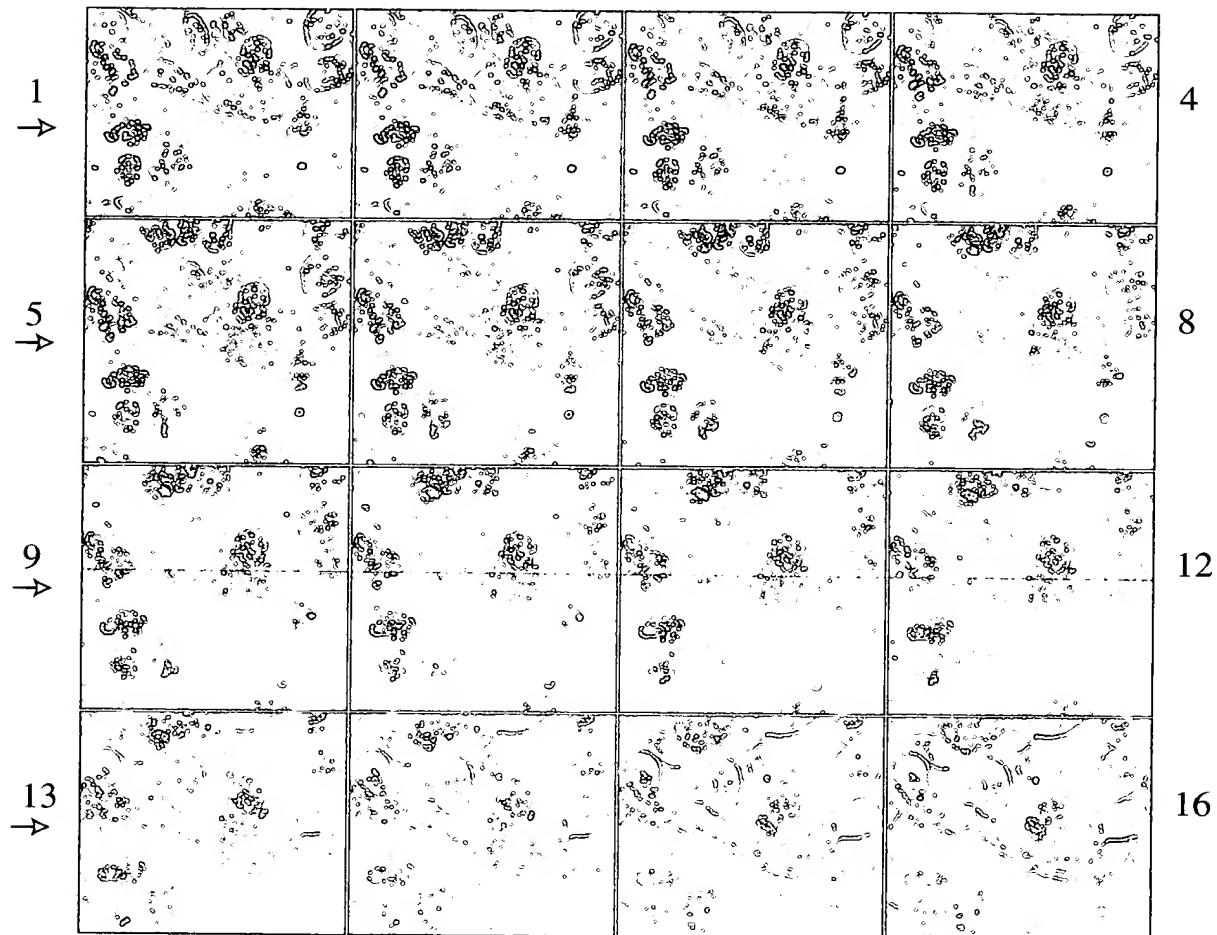
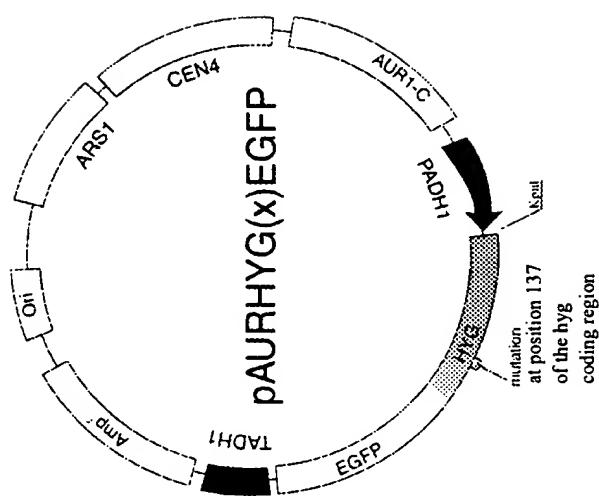


Figure 6

Sequence of normal allele: GTGGATAATGTCCCT
Target/existing mutant: GTGGATAATGTCCCT
Desired alteration: GTGGATAACGTCCCT

Figure 7A



Sequence of normal allele: GTGGATAATGTCCCT
Target/existing mutant: GTGGATAGGTCCCT
Desired alteration: GTGGATAACGTCCCT

Figure 7B

HygE3T/25: 5'-AGG GCG TGG ATA CGT CCT GCG GGT A-3'

HygE3T/74: 5'-CTC GTG CTT TCA GCT TCG ATG TAG GAG GGC
GTG GAT ACG TCC TGC GGG TAA ATA GCT GCG
CCG ATG GTT TCT AC-3'

HygE3T/74α: 5'-GTA GAA ACC ATC GGC GCA GCT ATT TAC CCG
CAG GAC GTA TCC ACG CCC TCC TAC ATC GAA
GCT GAA AGC ACG AG-3'

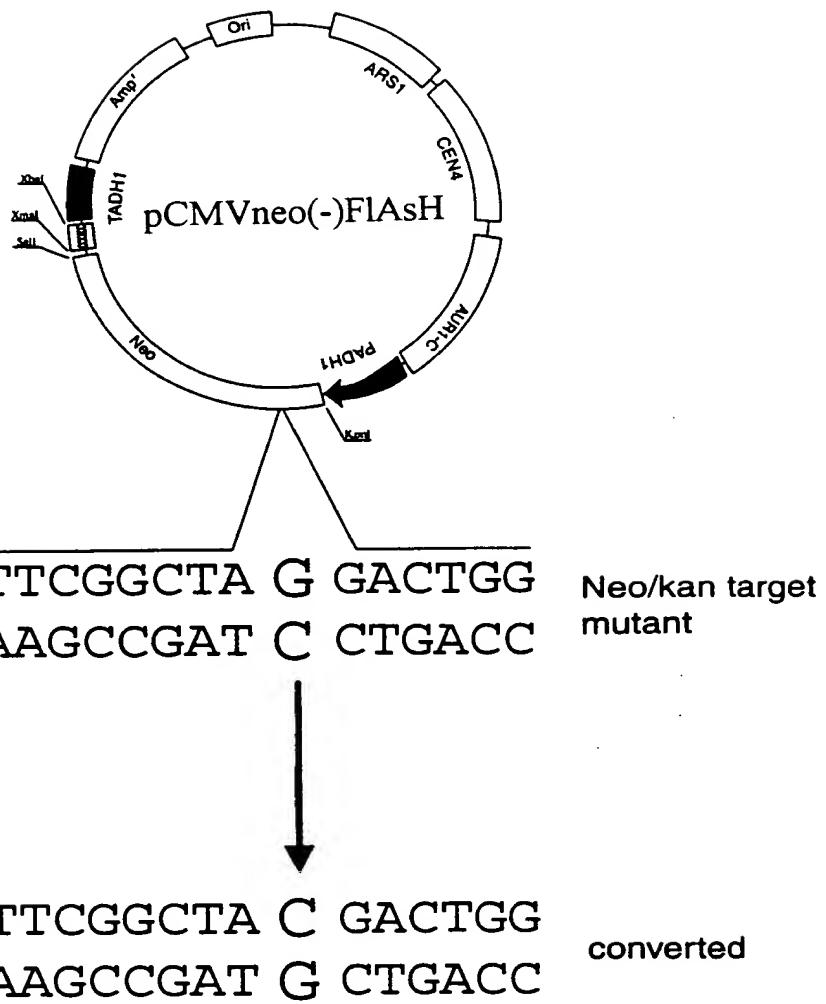
HygGG/Rev:

T
/ \ T
T ACATCCTCCCGCACCTATGCAGGACGCCAT T
T TGTAGGaggcguggaTAGGTccugcggua T
\\ / \ \\ / \ T
T 3' 5'

Kan70T: 5'-CAT CAG AGC AGC CAA TTG TCT GTT GTG CCC AGT
CGT AGC CGA ATA GCC TCT CCA CCC AAG CGG CCG GAG
A-3'

Figure 8

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FUSION GENE FOR LIGAND BINDING

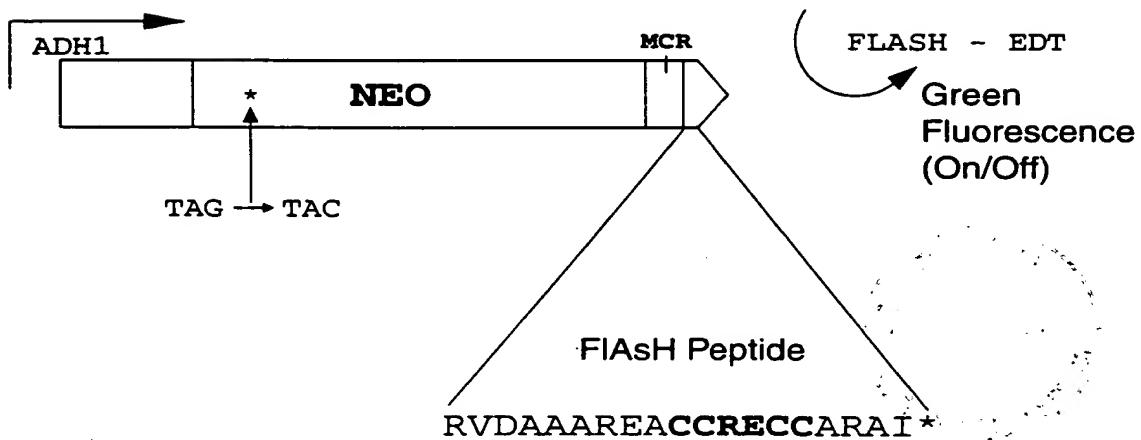


Figure 9

09818625 080204

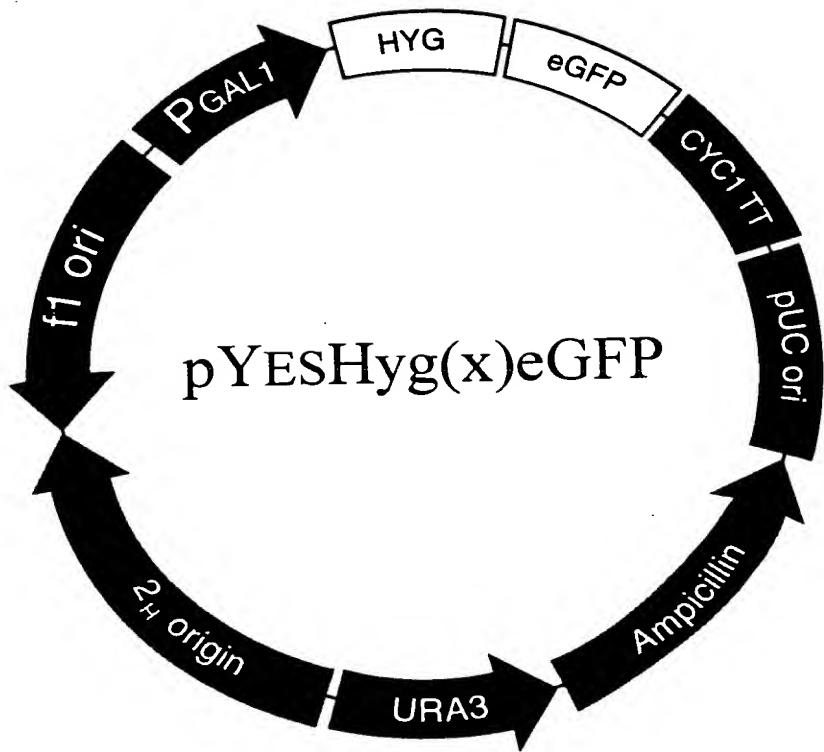


Figure 10